PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 40cdh/229159	FOR FURTHER ACTION	See Form PCT/IPEA/416			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)			
PCT/EP2004/000335	17.01.2004	11.03.2003			
		11.03.2003			
International Patent Classification (IPC) or national classification and IPC					
Applicant HYDAC TECHNOLOGY GMBH					
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.					
2. This REPORT consists of a total of _	6 sheets, includ	ing this cover sheet.			
3. This report is also accompanied by Al	NNEXES, comprising:				
a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:			
		n amended and are the basis for this report and/or Rule 70.16 and Section 607 of the Administrative			
sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.					
	Bureau only) a total of (indicate type and num	ber of electronic carrier(s))			
		, containing a sequence listing and/or tables			
related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).					
4. This report contains indications relati	ng to the following items:				
Box No. I Basis of the	report				
Box No. II Priority					
Box No. III Non-establi	shment of opinion with regard to novelty, inv	entive step and industrial applicability			
Box No. IV Lack of uni	ty of invention				
2 20,110, 1	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
Box No. VI Certain doc	Box No. VI Certain documents cited				
Box No. VII Certain defe	ects in the international application				
Box No. VIII Certain obs	Box No. VIII Certain observations on the international application				
Date of submission of the demand	Date of completion of	this report			
Name and mailing address of the IPEA/EP	Authorized officer				
		!			
Facsimile No.	Telephone No.				

Translation

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000335

Box	No. I		Basis of the report		
1.			to the language, this report is based on the internation ler this item.	al application in the language in which	it was filed, unless otherwise
2.	With	which i	port is based on translations from the original language is the language of a translation furnished for the purponternational search (Rule 12.3 and 23.1(b)) sublication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/oto the elements of the international application, this results in the content of the international application, this results in the content of the international application, this results in the content of the international application, this results in the content of the international application, this results in the content of the international application, this results in the content of the con	or 55.3)	, , , , , , , , , , , , , , , , , , ,
2.	recei	iving Off report): the inte	fice in response to an invitation under Article 14 are ernational application as originally filed/furnished acciption:		
		pages	1-8		as originally filed/furnished
		pages*			
	\square	pages*		received by this Authority on	
		the cla			
		nos.	1-10		
		nos.*			any statement) under Article 19
		nos.*			
	\boxtimes		wings:		
		sheets	1/2-2/2		as originally filed/furnished
		sheets'			
		sheets'			
		a sequ	ence listing and/or any related table(s) – see Supplem		
3.		The ar	mendments have resulted in the cancellation of:		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
			any table(s) related to sequence listing (specify):		
4.			eport has been established as if (some of) the amend ave been considered to go beyond the disclosure as fi		
			the description, pages		
			the claims, nos.		
			the drawings, sheets/figs		
			the sequence listing (specify):		
<u>_</u>	If it	em 4 apj	plies, some or all of those sheets may be marked "sup	erseded."	

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000335

Box	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement			
	Novelty (N)	Claims 1, 2, 9, 10	_ YES _ NO	
ŧ	Inventive step (IS)	Claims 1-10	YES NO	
	Industrial applicat	Claims 1-10		
2.	Citations and explana	ttions (Rule 70.7)		
	1 This report makes reference to the following			
	documents:			
	D1:	DE 195 39 551 A (BOLENZ &; SCHAEFER; SIEMENS AG (DE)) 17 April 1997 (1997-04-17) US 4 608 870 A (HUBER WERNER ET AL)		
	D3:	2 September 1986 (1986-09-02) PATENT ABSTRACTS OF JAPAN Vol. 1999, No. 10, 31 August 1999 (1999-08-31) &; JP 11 132204 A (TAIYO LTD), 18 May 1999 (1999-05-18)		
	D4:	PATENT ABSTRACTS OF JAPAN Vol. 2000, No. 20, 10 July 2001 (2001-07-10) &; JP 2001 082416 A (TAIYO LTD), 27 March 2001 (2001-03-27)		
	D5:	EP 0 721 067 A (BEETZ HYDRAULIK GMBH) 10 July 1996 (1996-07-10)		
	2 IND	EPENDENT CLAIM 1		
	req sub	present application does not meet the uirements of PCT Article 33(1) because the ject matter of claim 1 lacks novelty (PCT icle 33(2)).		

International application No.
PCT/EP2004/000335

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Document D1 discloses (the references between parentheses refer to that document):

piston-type accumulator that comprises: an accumulator housing in the form of a cylindrical tube (1) made from magnetisable material, which defines an axial direction of the housing, a piston (6), which can be axially displaced over a stroke path in the cylindrical tube (1) and which forms a movable separating element which separates two working chambers (2, 7) within the accumulator housing, a magnet arrangement (11) which is disposed on the piston (6) and generates a field on the wall of the cylindrical tube (1), and a magnetic field sensor device which is located on the outside of the cylindrical tube (1) and comprises at least one Hall sensor (12) which is disposed on the outside of the cylindrical tube (1) and responds to the field generated by the magnet arrangement (11) on the piston (6) in order to determine the position of the piston (6) along the stroke path.

- 2.2. Document D2 (see, in particular, column 1, line 61 column 3, line 6, figure 1) also discloses a device having the features of claim 1.
- 3 DEPENDENT CLAIMS 2-10
- 3.1. Dependent claims 2-10 do not appear to contain any additional features which, in combination with the features of any claim to which they refer back,

International application No.
PCT/EP2004/000335

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

meet the PCT requirements for novelty and inventive step. The reasons are as follows:

- 3.2. Regarding claims 2, 9 and 10: the subject matter of claims 2, 9 and 10 lacks novelty (PCT Article 33(2)): see document D2, in particular column 1, line 61 column 3, line 6, figure 1.
- 3.3. Regarding claims 3 8: the subject matter of
 claims 3 8 does not involve an inventive step
 (PCT Article 33(3)):
- 3.3.1. Regarding claims 3 and 8: see document D3, in particular the abstract and the drawings.
- 3.3.2. Regarding claims 4 and 5: see document D4, in particular the abstract and the drawings.
- 3.3.3.Regarding claim 6: see document D5, in particular column 4, lines 29-40, figure 1.
- 3.3.4. Regarding claim 7: dependent claim 7 concerns a minor structural modification to the device according to claim 6, of the kind that a person skilled in the art routinely makes on the basis of familiar considerations, especially since the resulting advantages are readily foreseeable.
- 3.4. Documents D3 to D5 describe the same advantages as the present application in relation to the features indicated in sections 3.3.1. to 3.3.4. A person skilled in the art would therefore regard

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/000335

Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
	the inclusion of these features in the device
	described in D1 as a common measure for solving
	the problem of interest.
4.	INDUSTRIAL APPLICABILITY
	The subject matter of claims 1-10 can be made and
	used and is therefore considered industrially
	applicable.
gy.	